



Parcs Parks
Canada Canada

CAPE BRETON HIGHLANDS NATIONAL PARK STRUCTURE REPLACEMENTS

CABOT TRAIL
NOVA SCOTIA

PROJECT NO. 2242



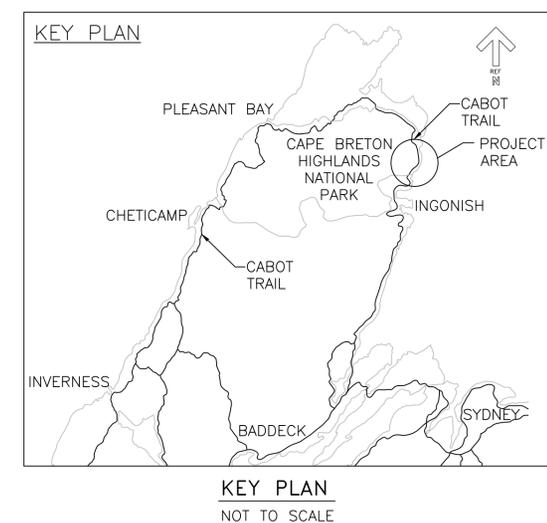
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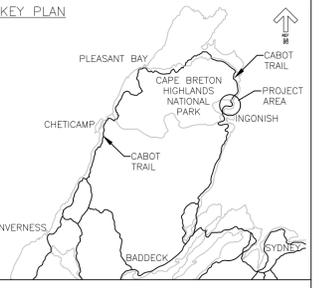
STRUCTURES LIST

STILL BROOK (KM68.2) PRECAST SHAW SPAN CULVERT
KM74.8 REINFORCED CONCRETE PIPE

DRAWING LIST

DRAWING NO.	TITLE
S01	STILL BROOK EXISTING SITE PLAN LAYOUT AND PROFILE
S02	STILL BROOK PROPOSED SITE PLAN LAYOUT
S03	STILL BROOK PROPOSED PROFILE VIEWS
S04	STILL BROOK ROADWAY DETAILS
S05	STILL BROOK STRUCTURE DETAILS
S06	STILL BROOK TEMPORARY WATER CONTROL (PHASE 1)
S07	STILL BROOK TEMPORARY WATER CONTROL (PHASE 2) AND DETOUR NO.1
S08	STILL BROOK TEMPORARY WATER CONTROL (PHASE 3)
S09	STILL BROOK TEMPORARY WATER CONTROL (PHASE 4)
S10	STILL BROOK GUIDE RAIL PLAN
S11	KM74.8 EXISTING SITE PLAN LAYOUT AND PROFILE
S12	KM74.8 PROPOSED SITE PLAN LAYOUT AND PROFILE
S13	KM74.8 ROADWAY AND STRUCTURE DETAILS
S14	KM74.8 PRECAST CONCRETE FLARED HEADWALL DETAILS
S15	KM74.8 DETOUR NO.1 SITE LAYOUT AND PROFILE
S16	KM74.8 SECTIONS THRU DETOURS
S17	KM74.8 GUIDE RAIL PLAN





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revisions	date
4	ISSUED FOR TENDER MAY 9 2022
3	ISSUED FOR 90% REVIEW APR. 22 2022
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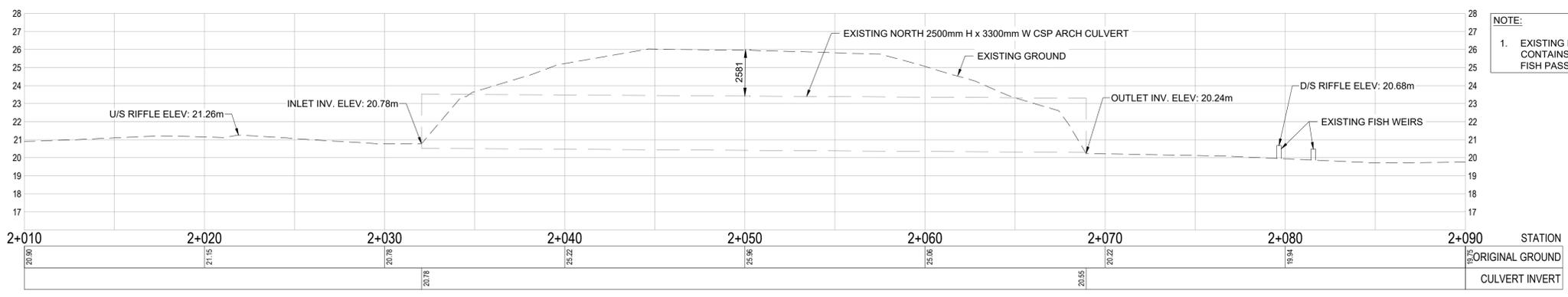
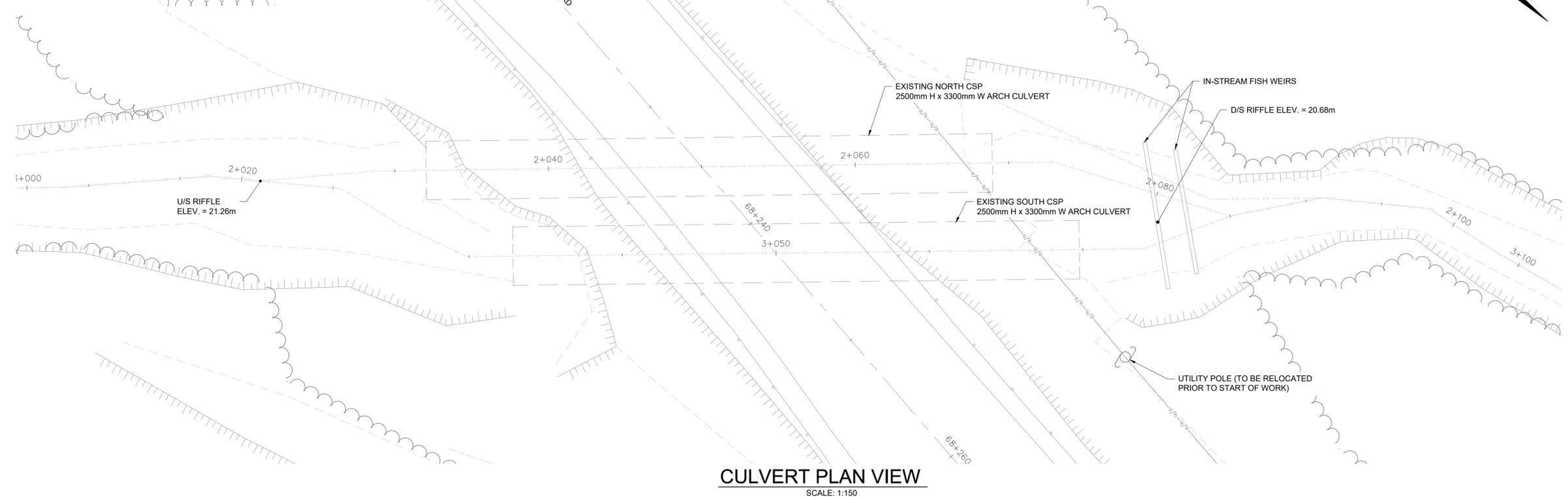
project: CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing: dessein

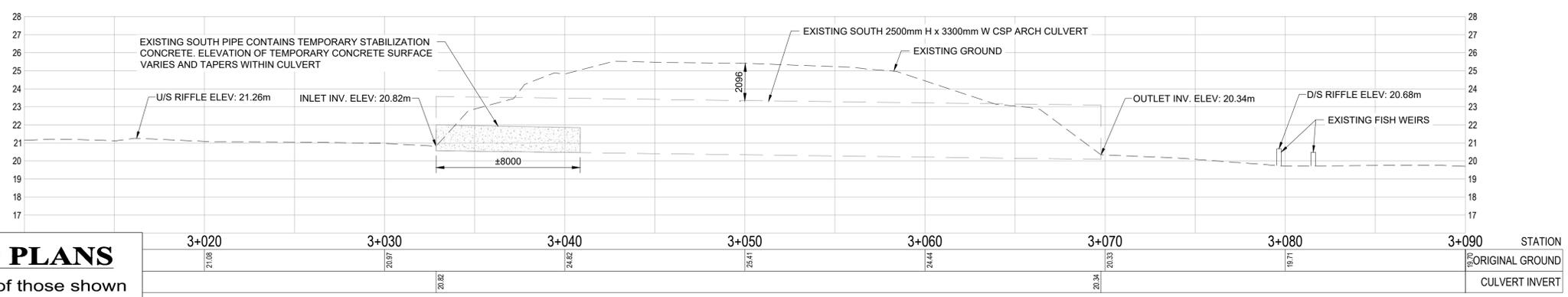
STILL BROOK
EXISTING SITE PLAN
LAYOUT AND PROFILE

designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	221-01526-00	
drawing no.		no. du dessin
	S01	

EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



NOTE:
1. EXISTING NORTH CULVERT
CONTAINS FISH WEIRS FOR
FISH PASSAGE.



REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.

C:\JOBFILES\PROJECTS (after Aug 4, 2018)\Parks Canada\Cape Breton - Still Brook Culvert\03_WORKING FILES\02_CADD Drawings\211-13188-521 Still Brook Show Span Culvert MASTER w. Asphalt Gutter.dwg PWGSC A1 (2004)



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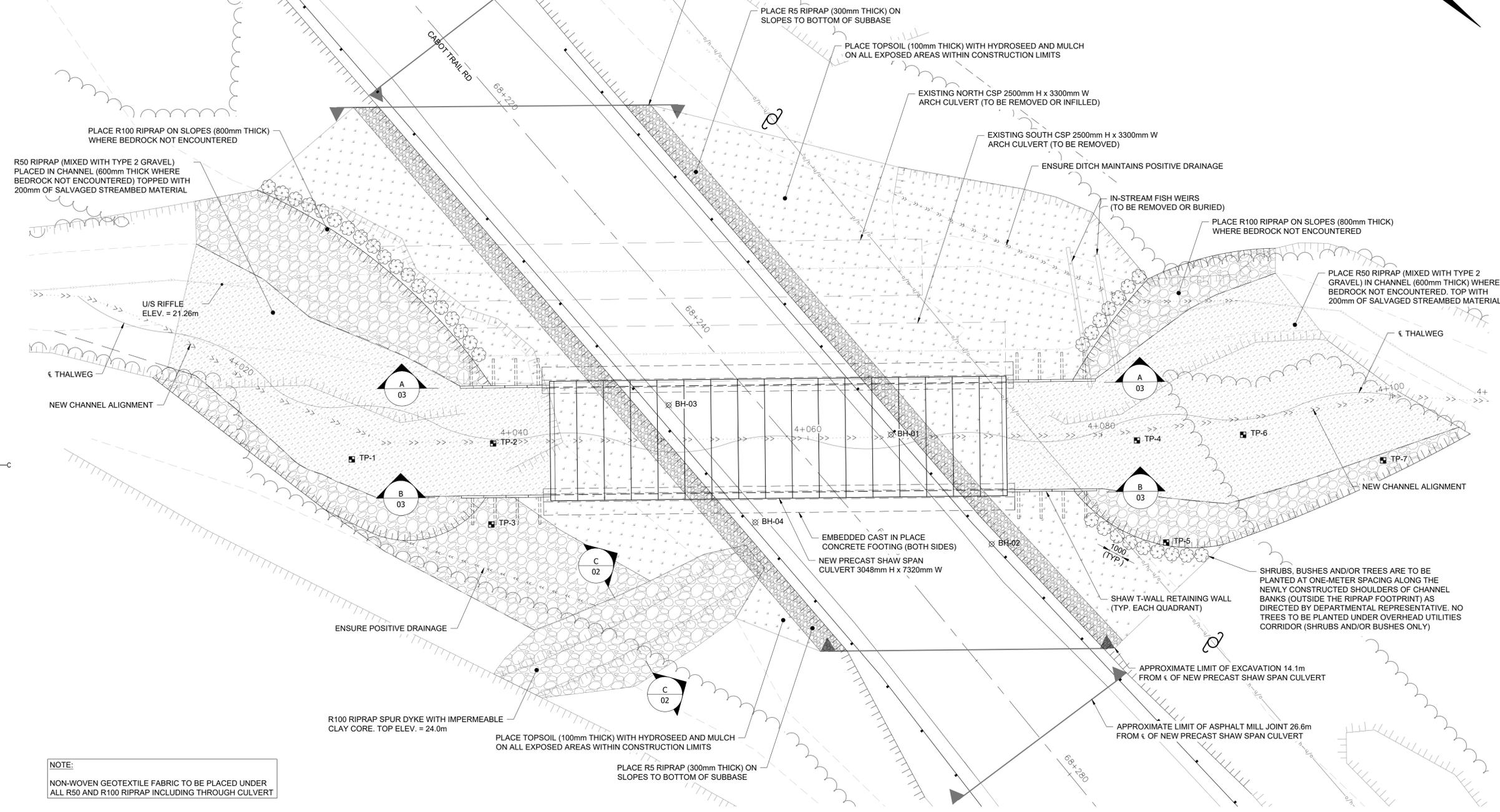
project CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing S02

STILL BROOK
PROPOSED SITE
PLAN LAYOUT

designed IGW	conçu
date MAY 9, 2022	
drawn CJM	dessiné
date MAY 9, 2022	
approved RBS	approuvé
date MAY 9, 2022	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number 221-01526-00	no. du projet
drawing no. S02	no. du dessin

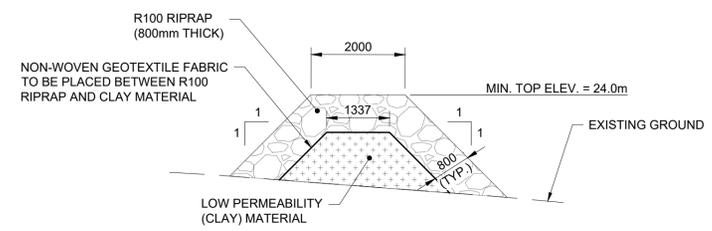
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	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDELINE	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



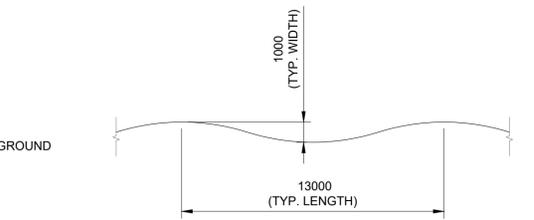
NOTE:
NON-WOVEN GEOTEXTILE FABRIC TO BE PLACED UNDER ALL R50 AND R100 RIPRAP INCLUDING THROUGH CULVERT

NOVA SCOTIA GRID COORDINATES - NAD83 (CSRC), UTM ZONE 20			
NORTHING	EASTING	TEST PIT / BOREHOLE	BEDROCK ELEVATION
5184041.05	703462.07	BH-01	18.743m
5184031.34	703464.93	BH-02	18.574m
5184049.56	703449.38	BH-03	19.071m
5184039.78	703451.14	BH-04	21.072m
5184055.79	703428.39	TP-1	20.447m
5184052.50	703437.50	TP-2	21.617m
5184047.61	703434.95	TP-3	20.387m
5184033.28	703476.92	TP-4	19.254m
5184026.18	703475.64	TP-5	20.074m
5184030.43	703483.58	TP-6	18.574m
5184024.65	703491.36	TP-7	20.164m

CULVERT PLAN VIEW
SCALE: 1:150



SPUR DYKE SECTION
SCALE: 1:75

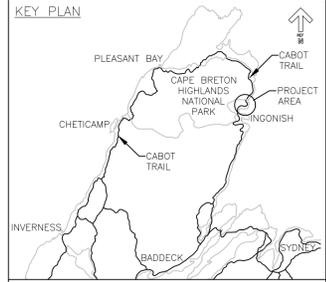


TYPICAL THALWEG MEANDER DETAIL
SCALE: 1:75

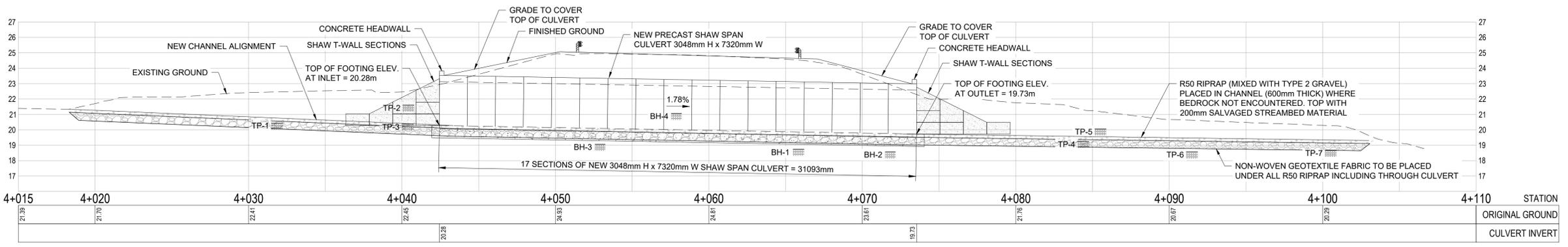


REDUCED PLANS
Use scale half size of those shown when printed on 11" x 17" paper.

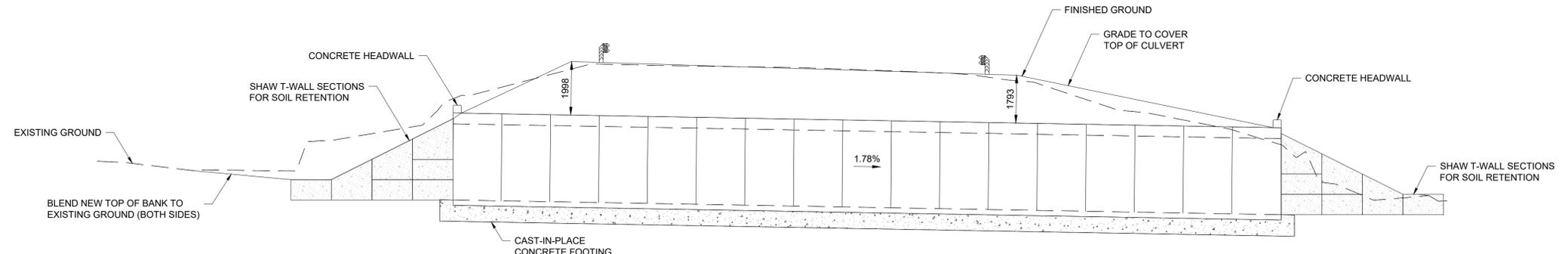
C:\JOBFILES\PROJECTS (after Aug 4, 2018)\Parks Canada\Cape Breton - Still Brook Culvert\03_WORKING FILES\02_CADD Drawings\211-1188-521 Still Brook Show Span Culvert MASTER W. Asphalt - gutter.dwg PWGSC A1 (2004)



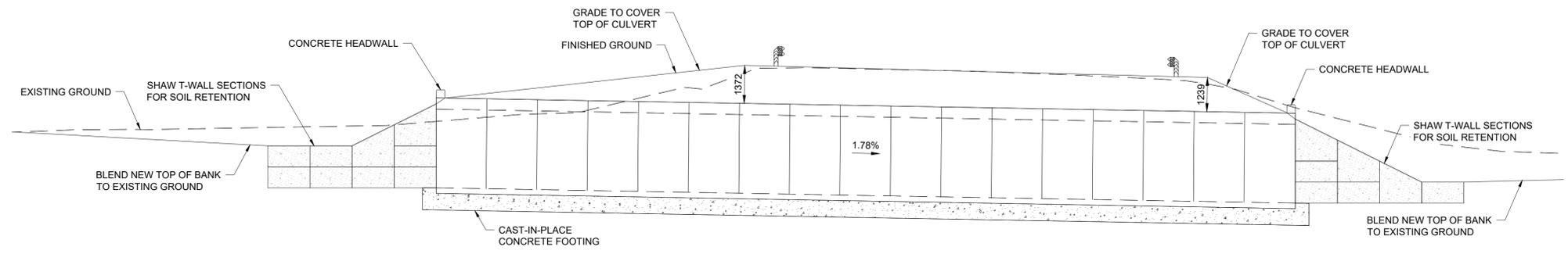
- NOTES:**
1. 1.5:1 SLOPE (PERPENDICULAR TO ROADWAY ϵ) VARIES AT T-WALL ASSEMBLY DUE TO SKEW
 2. ELEVATIONS OF NEW CHANNEL TO APPROXIMATELY MATCH ELEVATIONS OF EXISTING NORTH CHANNEL
 3. CONTRACTOR RESPONSIBLE FOR DESIGN OF SEGMENTAL RETAINING WALL. ACTUAL SECTION TO BE OBTAINED FROM SHOP DRAWINGS



CULVERT CENTERLINE PROFILE VIEW
SCALE: 1:150



SECTION A-A
SCALE: 1:100



SECTION B-B
SCALE: 1:100

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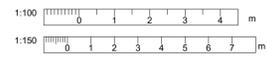


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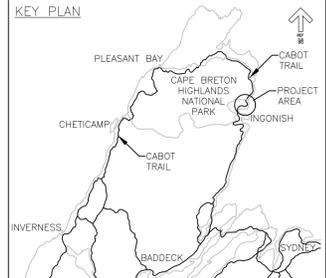
project: CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing: STILL BROOK
PROPOSED PROFILE VIEWS

designed	IGW	conçu	
date	MAY 9, 2022		
drawn	CJM	dessiné	
date	MAY 9, 2022		
approved	RBS	approuvé	
date	MAY 9, 2022		
Tender		Soumission	
PCA Project Manager		Administrateur de projets	PCA
project number		no. du projet	
			221-01526-00
drawing no.		no. du dessin	
			S03



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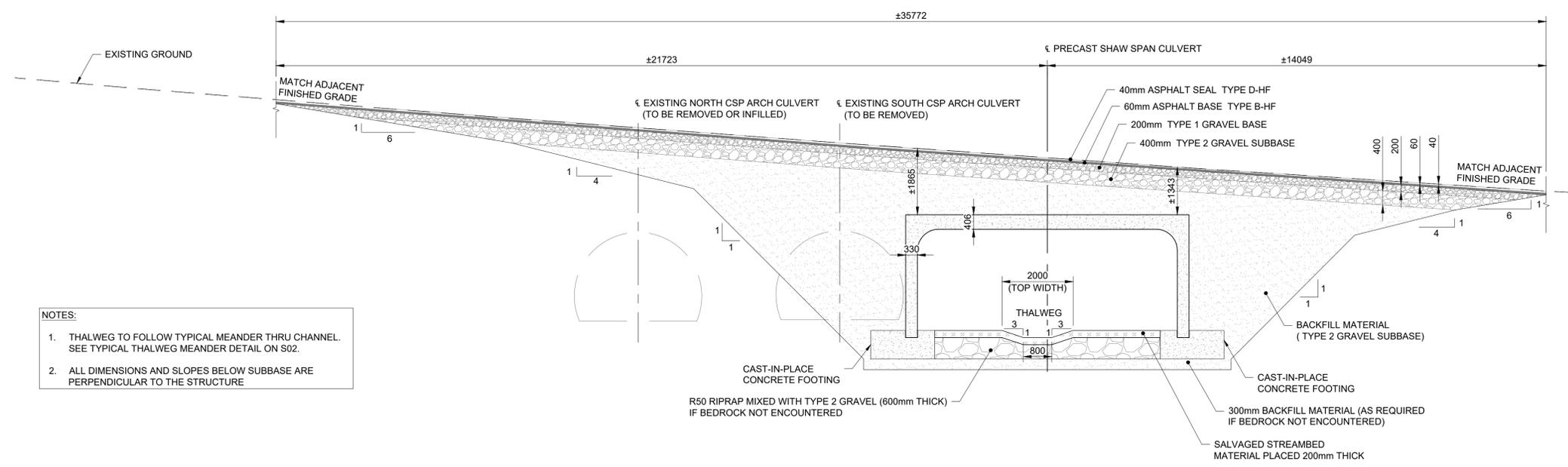
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project CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessein

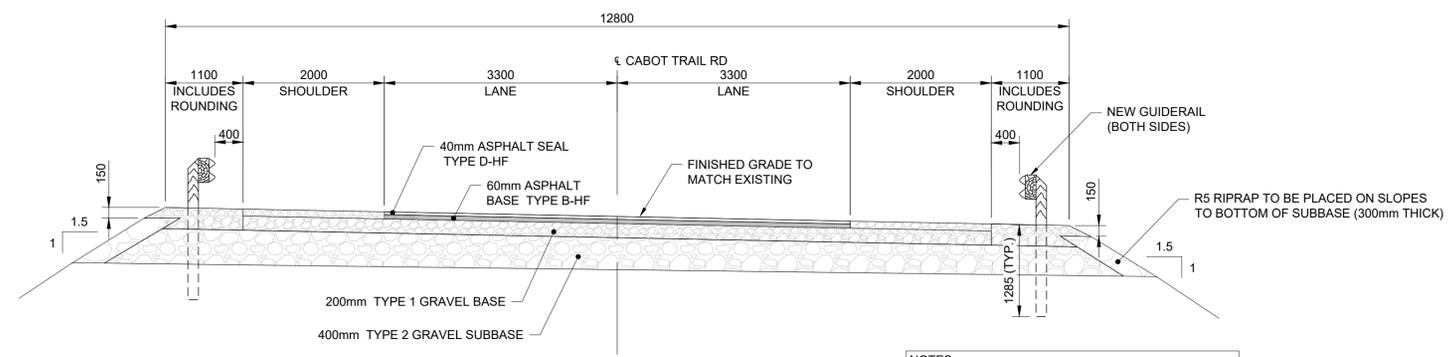
STILL BROOK
ROADWAY DETAILS

designed IGW	conçu
date MAY 9, 2022	
drawn CJM	dessiné
date MAY 9, 2022	
approved RBS	approuvé
date MAY 9, 2022	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
221-01526-00	
drawing no.	no. du dessein
S04	



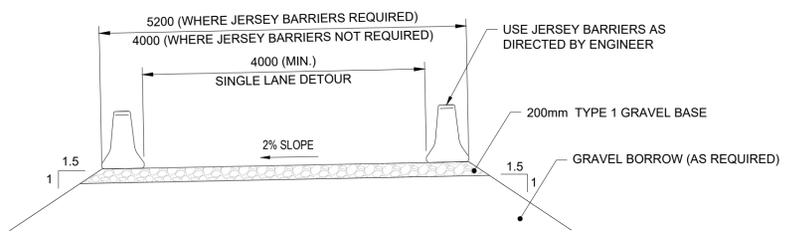
PRECAST SHAW SPAN TRENCH VIEW AT CENTERLINE CABOT TRAIL ROAD
SCALE: 1:75

- NOTES:**
1. THALWEG TO FOLLOW TYPICAL MEANDER THRU CHANNEL. SEE TYPICAL THALWEG MEANDER DETAIL ON S02.
 2. ALL DIMENSIONS AND SLOPES BELOW SUBBASE ARE PERPENDICULAR TO THE STRUCTURE

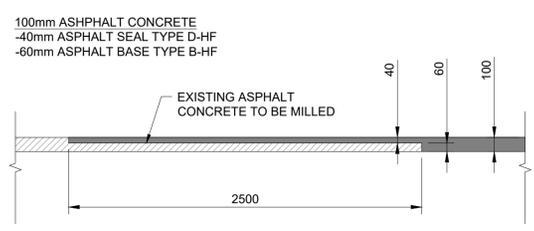


TYPICAL ROAD SECTION
SCALE: 1:50

- NOTES:**
1. ALL GUIDE POSTS INSTALLED ABOVE PRECAST SHAW SPAN SHALL BE PLACED IN AREAS WITH A MINIMUM COVER OF 1285mm
 2. PAVED LANE AND SHOULDER WIDTHS MAY VARY AND SHOULD BE PAVED TO MEET EXISTING DIMENSIONS



TYPICAL DETOUR SECTION
SCALE: 1:50



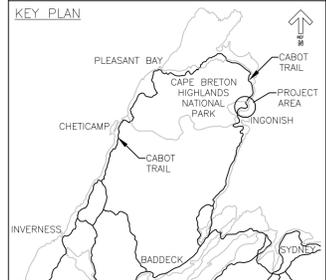
ASPHALT BUTT JOINT DETAIL
SCALE: 1:25

- NOTE:**
- USE ASPHALT BUTT JOINT FOR ALL TRANSVERSE JOINTS WHERE NEW ASPHALT PAVEMENT MEETS EXISTING ASPHALT PAVEMENT

REDUCED PLANS
Use scale half size of those shown when printed on 11" x 17" paper.



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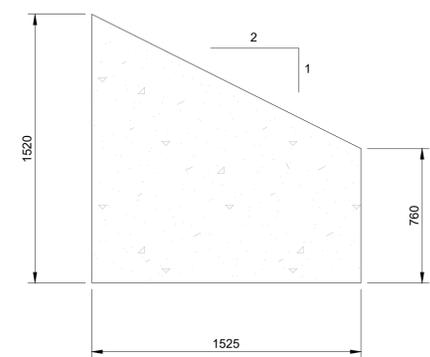


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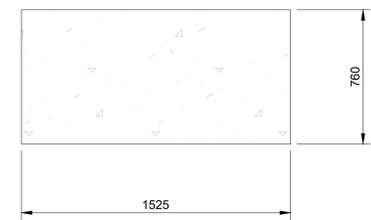
project project
**CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin
**STILL BROOK
STRUCTURE DETAILS**

designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	221-01526-00	
drawing no.		no. du dessin
	S05	



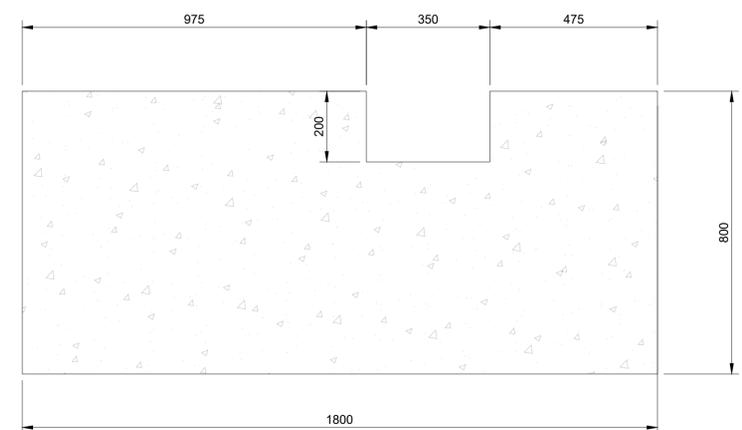
TYPICAL SLOPED TOP T-WALL FRONT VIEW



TYPICAL T-WALL BOTTOM FRONT VIEW

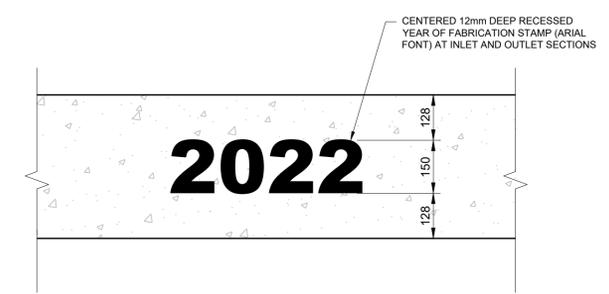
TYPICAL T-WALL SECTIONS

SCALE: 1:20



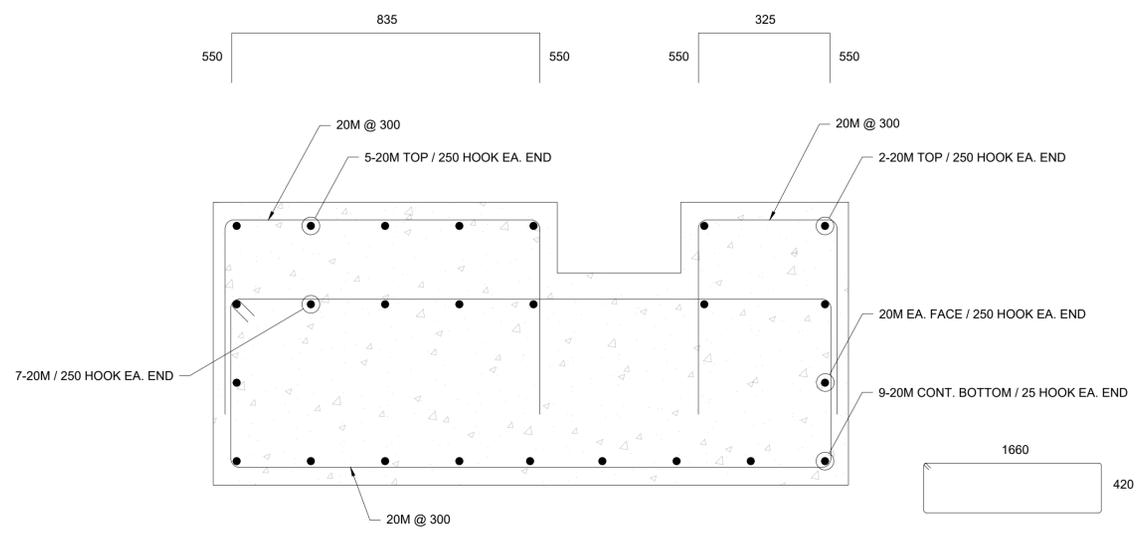
TYPICAL CAST-IN-PLACE CONCRETE FOOTING SECTION

SCALE: 1:20



RECESSED DATE STAMP

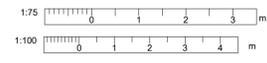
SCALE: 1:10



TYPICAL CAST-IN-PLACE CONCRETE FOOTING REBAR SCHEDULING

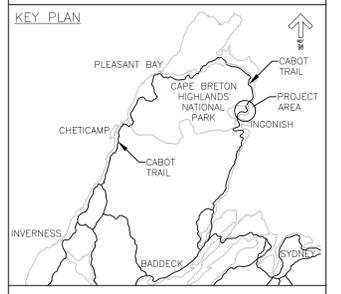
SCALE: 1:10

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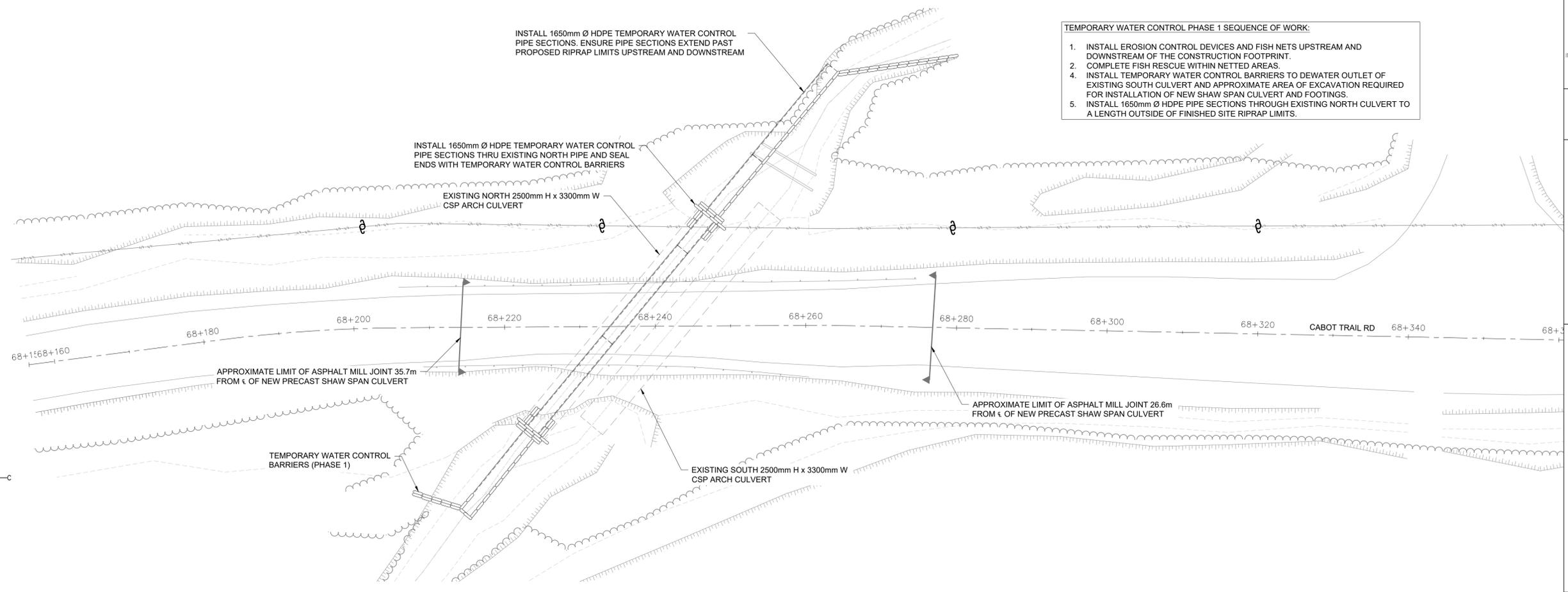


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EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	

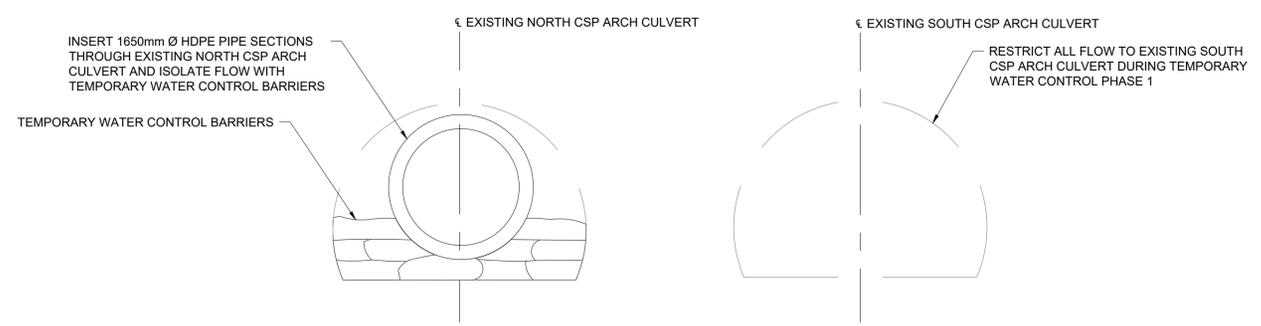


- TEMPORARY WATER CONTROL PHASE 1 SEQUENCE OF WORK:**
1. INSTALL EROSION CONTROL DEVICES AND FISH NETS UPSTREAM AND DOWNSTREAM OF THE CONSTRUCTION FOOTPRINT.
 2. COMPLETE FISH RESCUE WITHIN NETTED AREAS.
 4. INSTALL TEMPORARY WATER CONTROL BARRIERS TO DEWATER OUTLET OF EXISTING SOUTH CULVERT AND APPROXIMATE AREA OF EXCAVATION REQUIRED FOR INSTALLATION OF NEW SHAW SPAN CULVERT AND FOOTINGS.
 5. INSTALL 1650mm Ø HDPE PIPE SECTIONS THROUGH EXISTING NORTH CULVERT TO A LENGTH OUTSIDE OF FINISHED SITE RIPRAP LIMITS.



TEMPORARY WATER CONTROL PHASE 1 PLAN

SCALE: 1:300



TEMPORARY WATER CONTROL DETAIL

SCALE: 1:50

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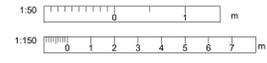


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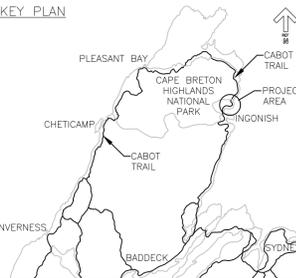
project CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing STILL BROOK
TEMPORARY WATER
CONTROL (PHASE 1)

designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
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drawing no.		no. du dessin
	S06	



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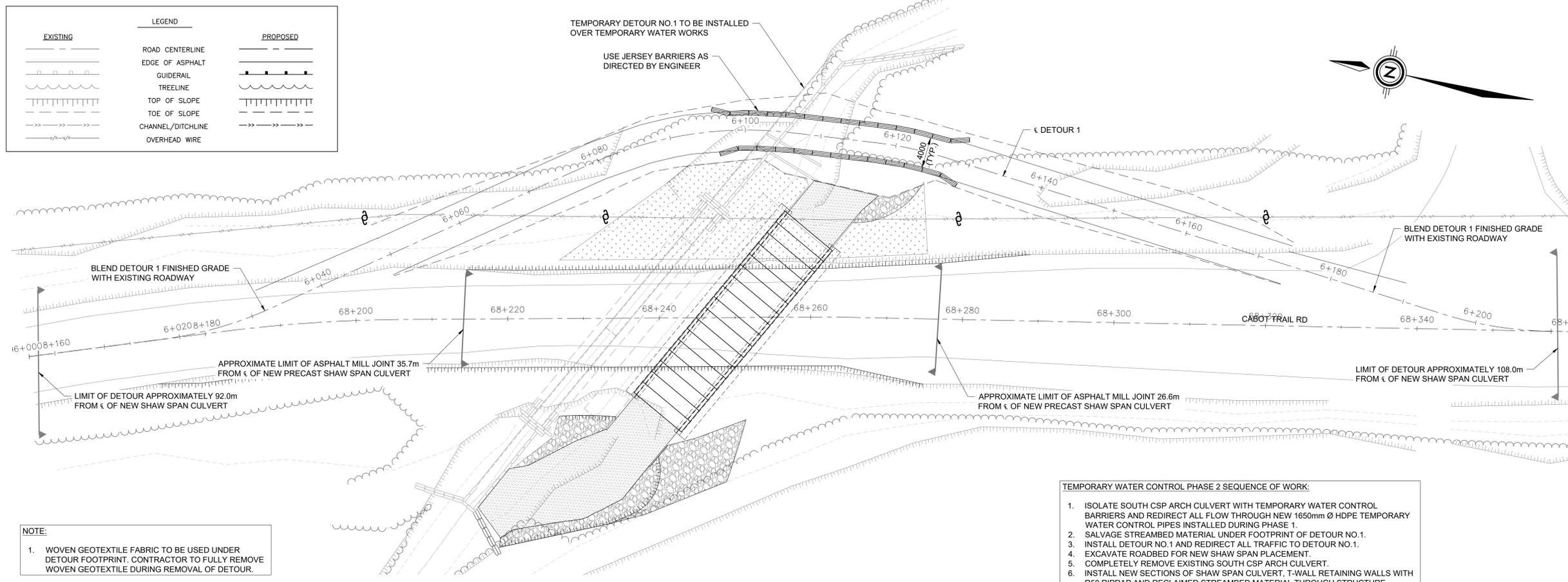


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1	ISSUED FOR REVIEW APR. 12 2022

project
**CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing
**STILL BROOK
TEMPORARY WATER
CONTROL (PHASE 2) AND
DETOUR NO.1**

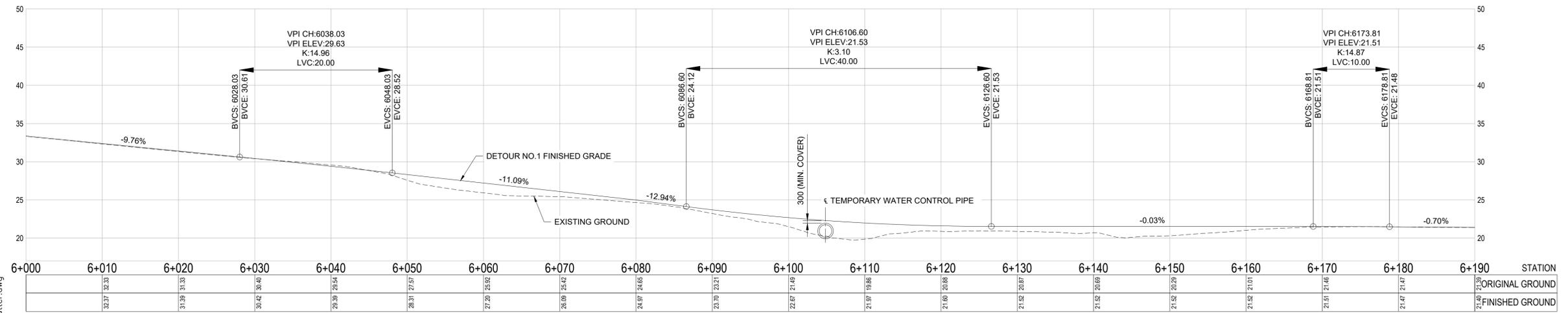
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Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	221-01526-00	
drawing no.		no. du dessin
	S07	



- TEMPORARY WATER CONTROL PHASE 2 SEQUENCE OF WORK:**
- ISOLATE SOUTH CSP ARCH CULVERT WITH TEMPORARY WATER CONTROL BARRIERS AND REDIRECT ALL FLOW THROUGH NEW 1650mm Ø HDPE TEMPORARY WATER CONTROL PIPES INSTALLED DURING PHASE 1.
 - SALVAGE STREAMBED MATERIAL UNDER FOOTPRINT OF DETOUR NO.1.
 - INSTALL DETOUR NO.1 AND REDIRECT ALL TRAFFIC TO DETOUR NO.1.
 - EXCAVATE ROADBED FOR NEW SHAW SPAN PLACEMENT.
 - COMPLETELY REMOVE EXISTING SOUTH CSP ARCH CULVERT.
 - INSTALL NEW SECTIONS OF SHAW SPAN CULVERT, T-WALL RETAINING WALLS WITH R50 RIPRAP AND RECLAIMED STREAMBED MATERIAL THROUGH STRUCTURE.
 - PLACE RIPRAP AND RECLAIMED STREAMBED MATERIAL WITHIN DEWATERED AREA OUTSIDE OF DETOUR NO.1 FOOTPRINT AND TO LIMITS OF TEMPORARY WATER BARRIERS.

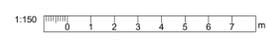
NOTE:
1. WOVEN GEOTEXTILE FABRIC TO BE USED UNDER DETOUR FOOTPRINT. CONTRACTOR TO FULLY REMOVE WOVEN GEOTEXTILE DURING REMOVAL OF DETOUR.

TEMPORARY WATER CONTROL PHASE 2 PLAN
SCALE: 1:300



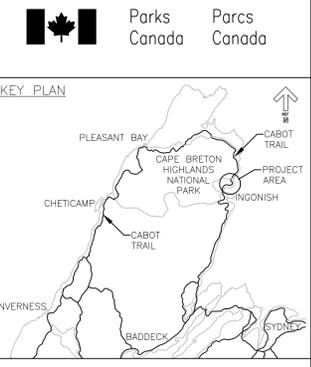
DETOUR NO.1 PROFILE VIEW
SCALE: 1:300

REDUCED PLANS
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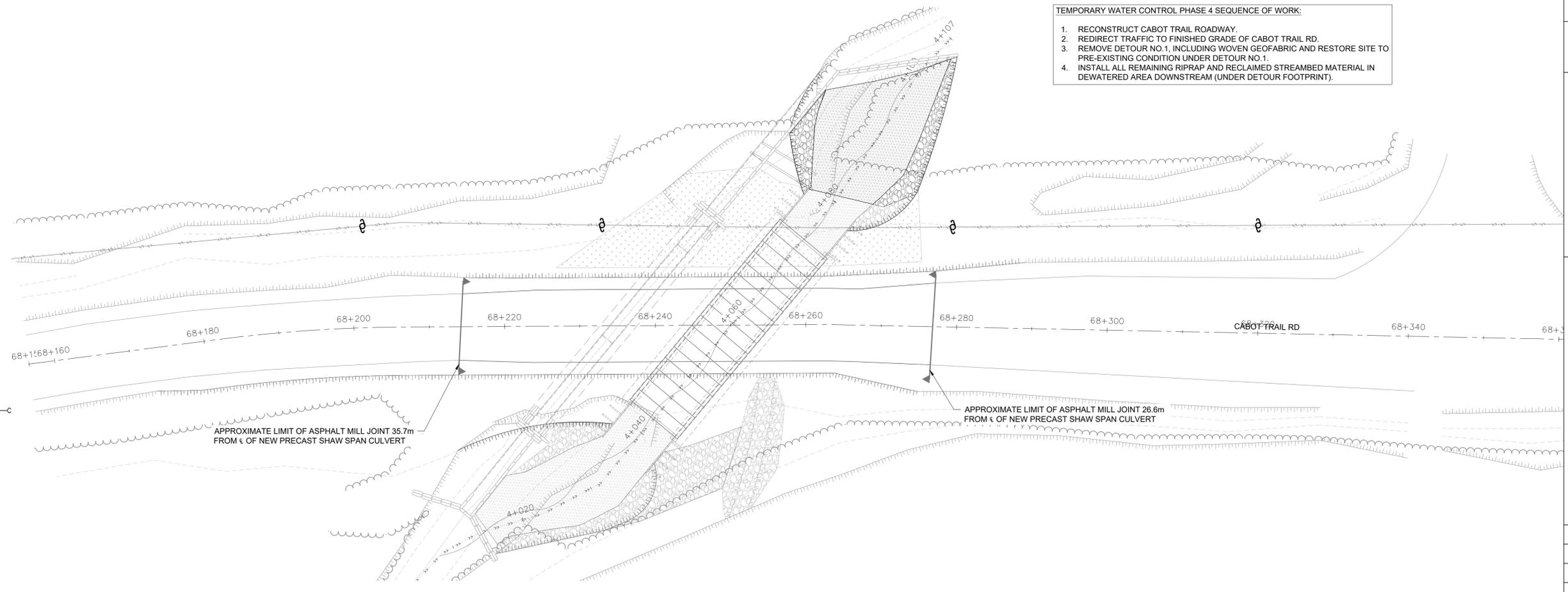


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EXISTING	LEGEND	PROPOSED
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	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



- TEMPORARY WATER CONTROL PHASE 4 SEQUENCE OF WORK:**
1. RECONSTRUCT CABOT TRAIL ROADWAY.
 2. REDIRECT TRAFFIC TO FINISHED GRADE OF CABOT TRAIL RD.
 3. REMOVE DETOUR NO. 1, INCLUDING WOVEN GEOFABRIC AND RESTORE SITE TO PRE-EXISTING CONDITION UNDER DETOUR NO. 1.
 4. INSTALL ALL REMAINING RIPRAP AND RECLAIMED STREAMBED MATERIAL IN DEWATERED AREA DOWNSTREAM (UNDER DETOUR FOOTPRINT).



TEMPORARY WATER CONTROL PHASE 3 PLAN
SCALE: 1:300

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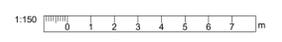


revisions	date
4	ISSUED FOR TENDER
3	ISSUED FOR 90% REVIEW
2	ISSUED FOR 50% REVIEW
1	ISSUED FOR REVIEW

project project
**CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin
**STILL BROOK
TEMPORARY WATER
CONTROL (PHASE 3)**

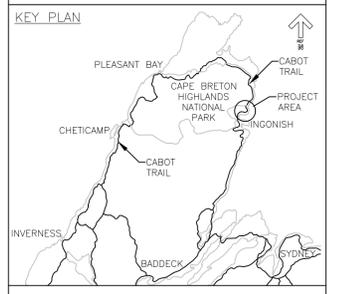
designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	221-01526-00	
drawing no.		no. du dessin
	S08	



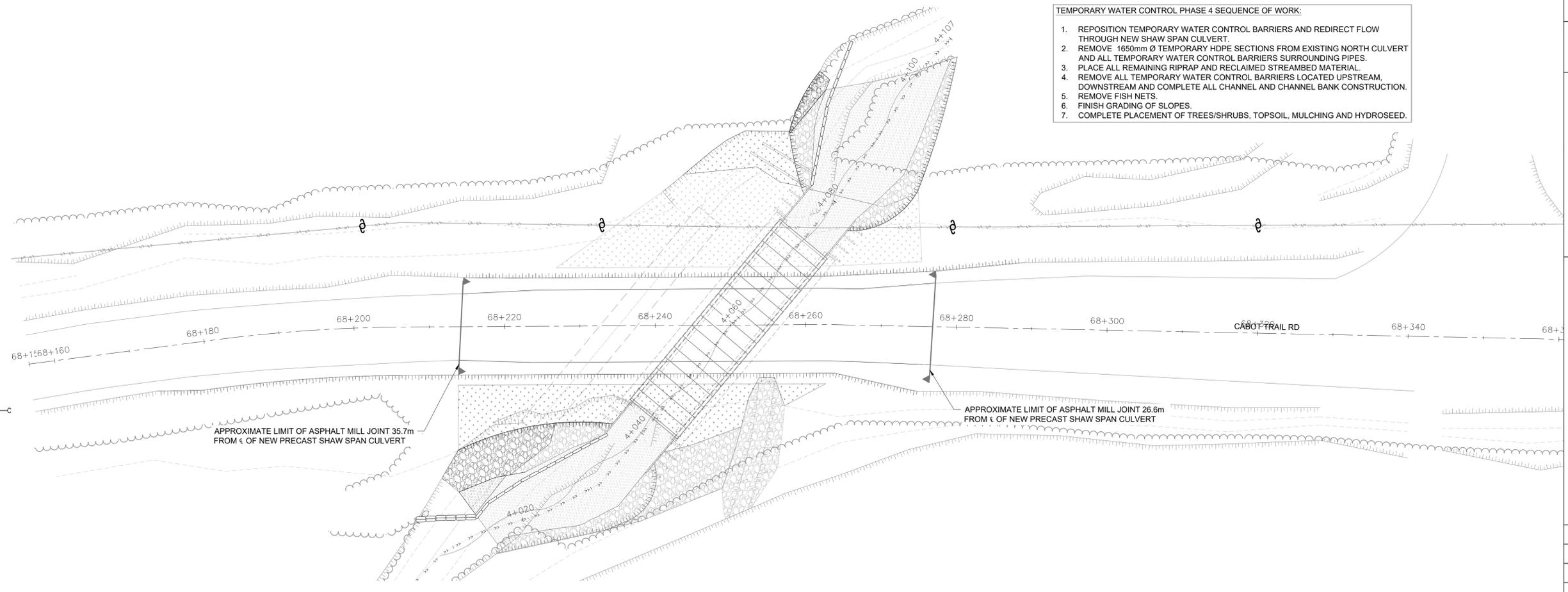
C:\JOBFILES\PROJECTS (after Aug 4, 2018)\Parks Canada\Cape Breton - Still Brook Culvert\03_WORKING FILES\02_CADD Drawings\211-1188-521 Still Brook Show Span Culvert MASTER W. Asphalt Gutter.dwg PWGSC A1 (2004)

REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.

EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



- TEMPORARY WATER CONTROL PHASE 4 SEQUENCE OF WORK:**
1. REPOSITION TEMPORARY WATER CONTROL BARRIERS AND REDIRECT FLOW THROUGH NEW SHAW SPAN CULVERT.
 2. REMOVE 1650mm Ø TEMPORARY HDPE SECTIONS FROM EXISTING NORTH CULVERT AND ALL TEMPORARY WATER CONTROL BARRIERS SURROUNDING PIPES.
 3. PLACE ALL REMAINING RIPRAP AND RECLAIMED STREAMBED MATERIAL.
 4. REMOVE ALL TEMPORARY WATER CONTROL BARRIERS LOCATED UPSTREAM, DOWNSTREAM AND COMPLETE ALL CHANNEL AND CHANNEL BANK CONSTRUCTION.
 5. REMOVE FISH NETS.
 6. FINISH GRADING OF SLOPES.
 7. COMPLETE PLACEMENT OF TREES/SHRUBS, TOPSOIL, MULCHING AND HYDROSEED.



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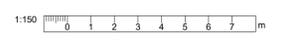
TEMPORARY WATER CONTROL PHASE 4 PLAN
SCALE: 1:300

revisions	date
4	ISSUED FOR TENDER MAY. 9 2022
3	ISSUED FOR 90% REVIEW APR. 22 2022
2	ISSUED FOR 50% REVIEW APR. 8 2022
1	ISSUED FOR REVIEW APR. 12 2022

project project
**CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin
**STILL BROOK
TEMPORARY WATER
CONTROL (PHASE 4)**

designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	221-01526-00	
drawing no.		no. du dessin
	S09	



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REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.

C:\JOBFILES\PROJECTS (after Aug 4, 2018)\Parks Canada\Cape Breton - Still Brook Culvert\03_WORKING FILES\02_CADD Drawings\211-11188-521 Still Brook Show
 03000 Culvert MASTER W. Asphalt Gutter.dwg
 PWGSC A1 (2004)

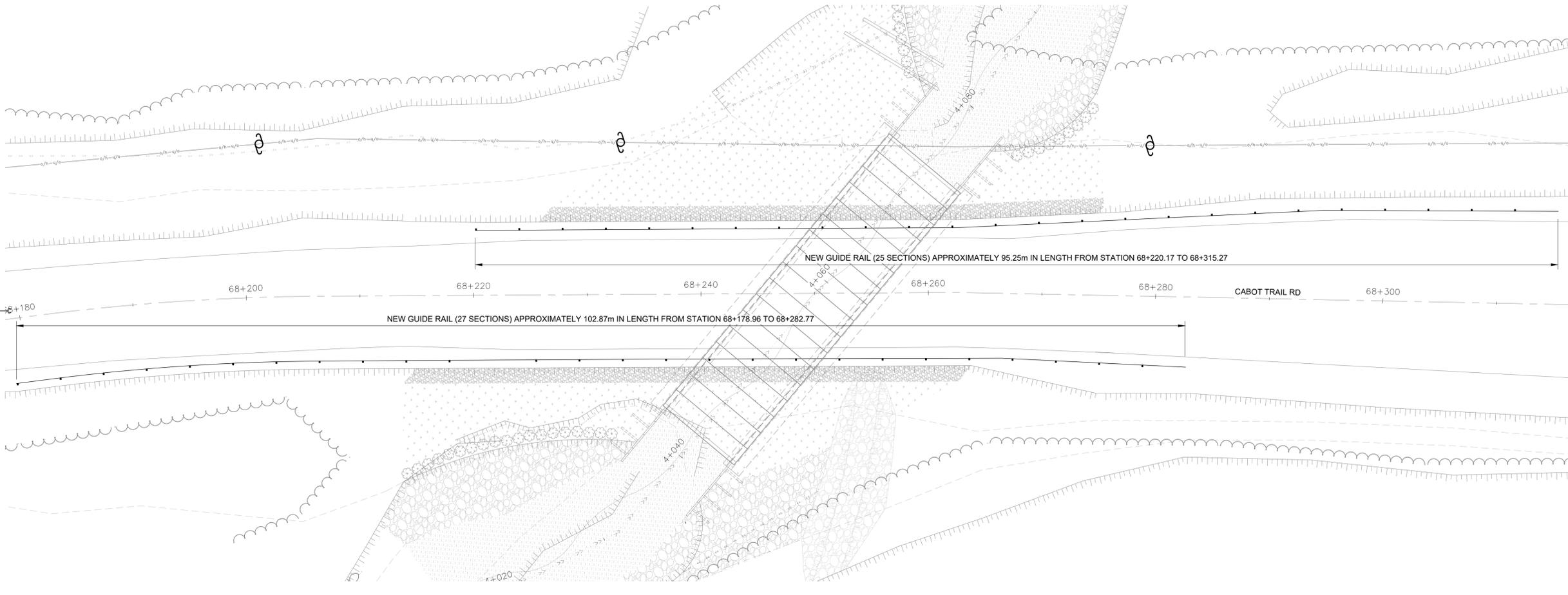
EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



Parks Canada / Parcs Canada

KEY PLAN

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GUIDE RAIL PLAN VIEW
 SCALE: 1:200

REDUCED PLANS
 Use scale half size of those shown
 when printed on 11" x 17" paper.

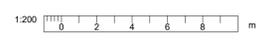


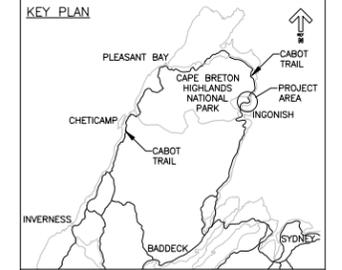
revisions	date
2	ISSUED FOR TENDER
1	ISSUED FOR REVIEW

CABOT TRAIL
 STRUCTURE REPLACEMENT
 CAPE BRETON HIGHLANDS
 NATIONAL PARK

drawing / dessin
**STILL BROOK
 GUIDE RAIL PLAN**

designed / conçu	IGW
date	MAY 9, 2022
drawn / dessiné	CJM
date	MAY 9, 2022
approved / approuvé	RBS
date	MAY 9, 2022
Tender / Soumission	MAY 9, 2022
PCA Project Manager / Administrateur de projets PCA	
project number / no. du projet	221-01526-00
drawing no. / no. du dessin	S10





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4	ISSUED FOR TENDER	MAY 9 2022
3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 1 2022
revisions		date
project		projet

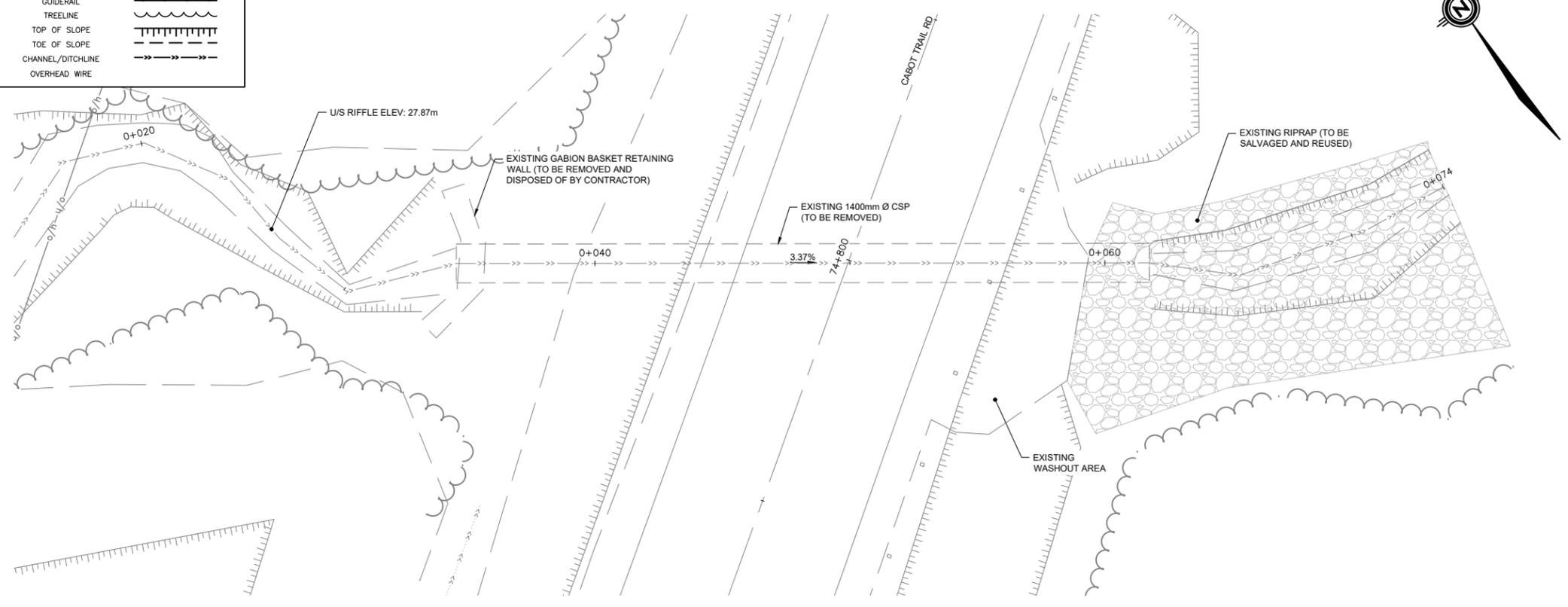
CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

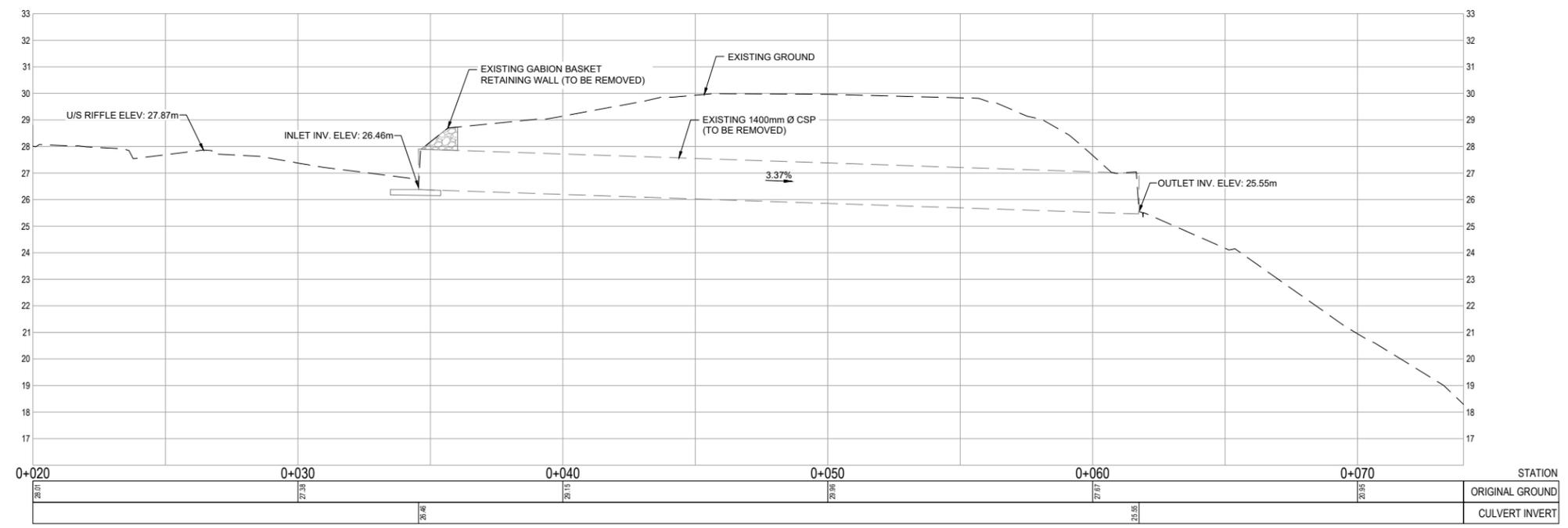
KM74.8
EXISTING SITE PLAN
LAYOUT AND PROFILE

designed IGW	conçu
date MAY 9, 2022	
drawn CJM	dessiné
date MAY 9, 2022	
approved RBS	approuvé
date MAY 9, 2022	
Tender	Submission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
221-01526-00	
drawing no.	no. du dessin
S11	

EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	

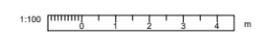


CULVERT PLAN VIEW
SCALE: 1:100



CULVERT PROFILE VIEW
SCALE: 1:100

REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.



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4	ISSUED FOR TENDER	MAY 9 2022
3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 1 2022
revisions		date
project		projct

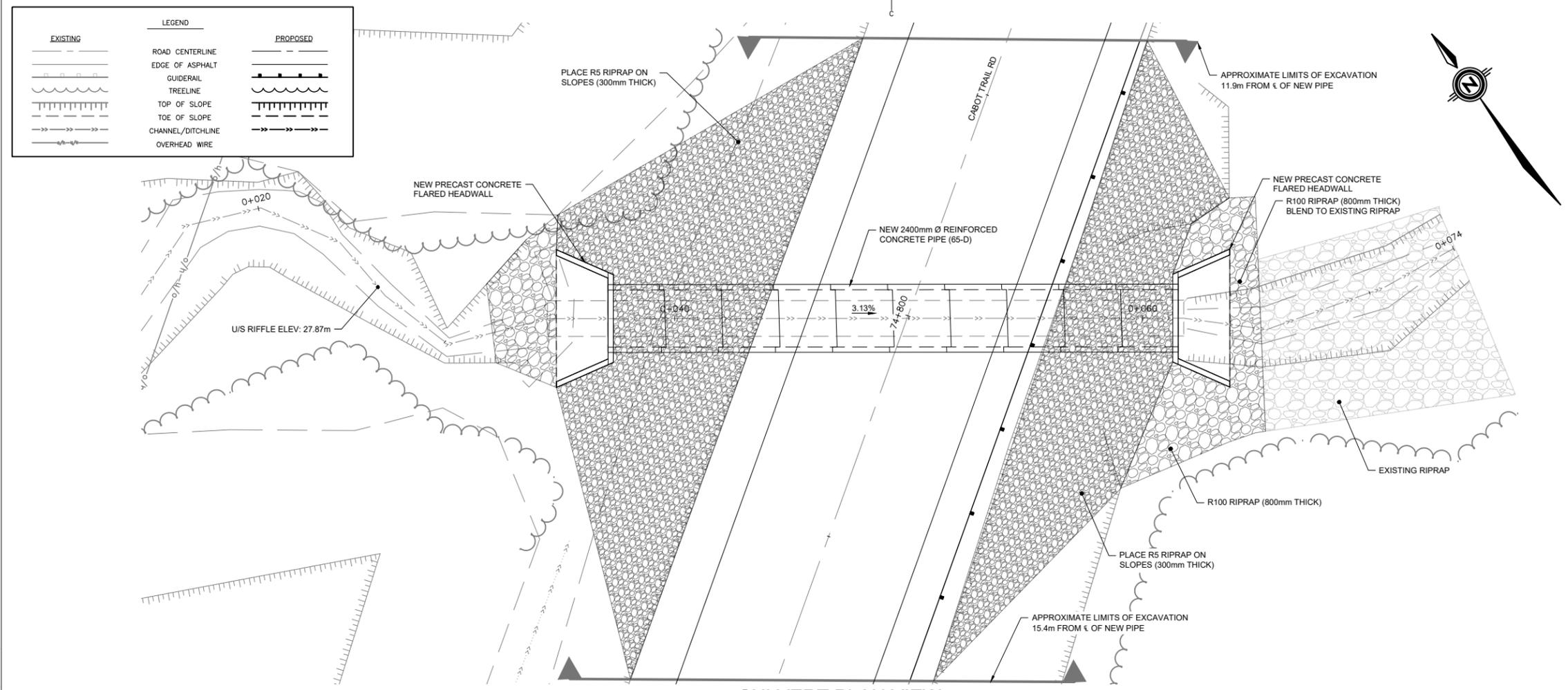
CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

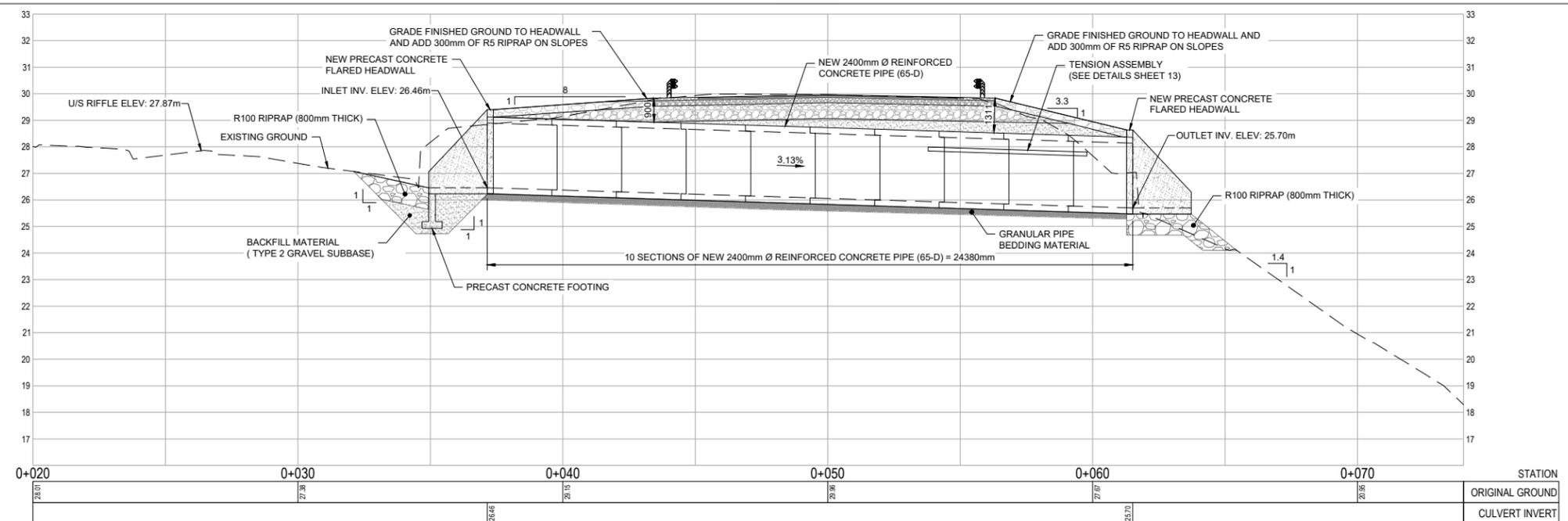
KM74.8
PROPOSED SITE PLAN
LAYOUT AND PROFILE

designed IGW	conçu
date MAY 9, 2022	
drawn CJM	dessiné
date MAY 9, 2022	
approved RBS	approuvé
date MAY 9, 2022	

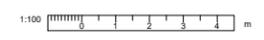
Tender	Submission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
221-01526-00	
drawing no.	no. du dessin
S12	



CULVERT PLAN VIEW
SCALE: 1:100



CULVERT PROFILE VIEW
SCALE: 1:100



REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.

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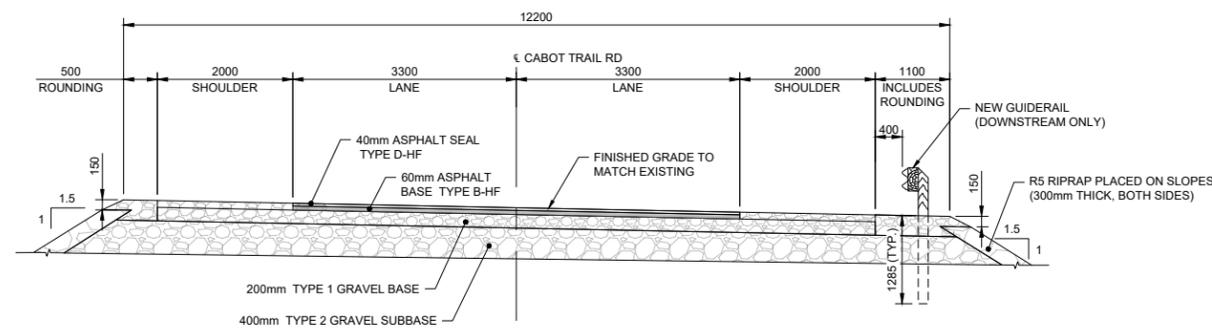
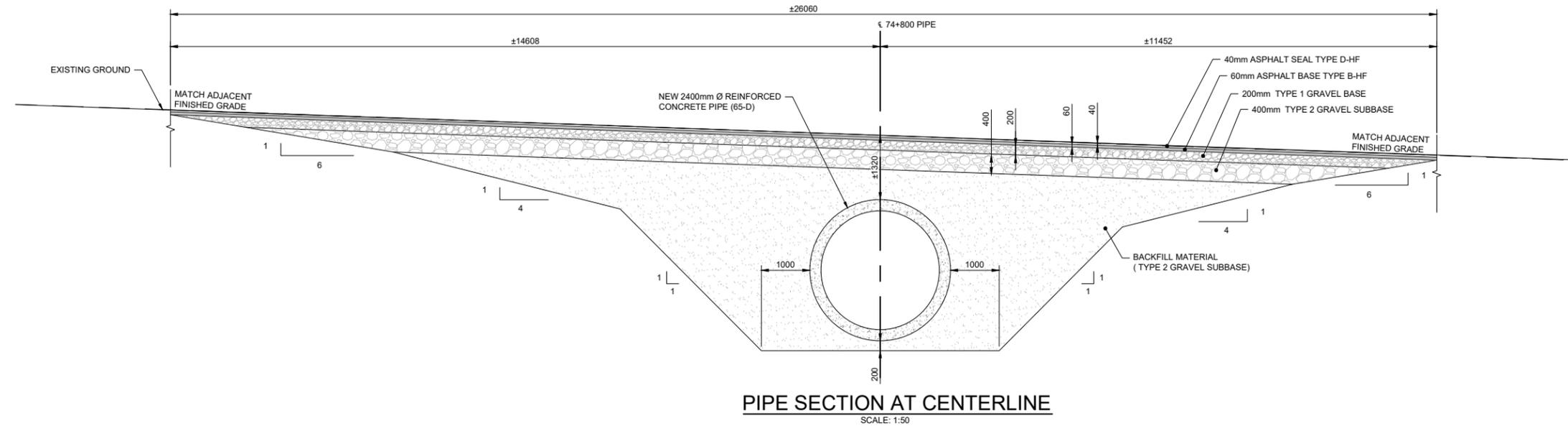
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3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 1 2022
revisions		date
project		projct

CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

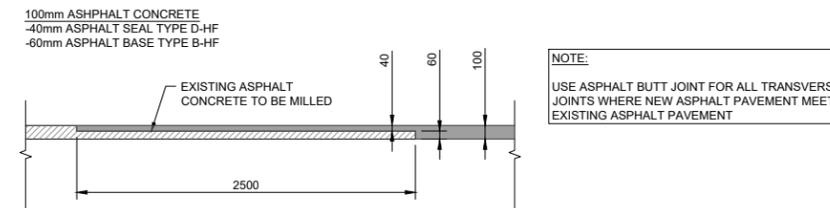
drawing design

KM74.8
ROADWAY AND
STRUCTURE DETAILS

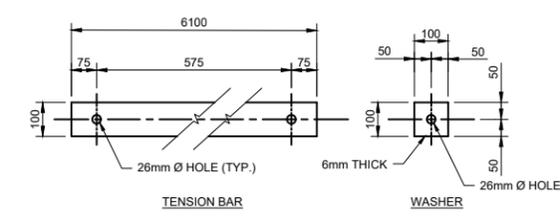
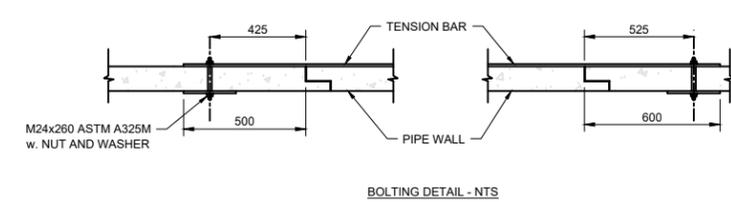
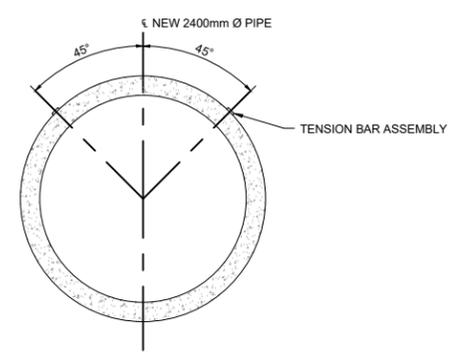
designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender		Submission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	221-01526-00	
drawing no.		no. du dessin
	S13	



- NOTES:
- ALL GUIDE POSTS INSTALLED ABOVE PRECAST SHAW SPAN SHALL BE PLACED IN AREAS WITH A MINIMUM COVER OF 1285mm
 - PAVED LANE AND SHOULDER WIDTHS MAY VARY AND SHOULD BE PAVED TO MEET EXISTING DIMENSIONS



- NOTES:
- TENSION RODS MAY BE SHORT, AS SHOWN (ONE PER JOINT), OR LONG, TO SPAN THREE JOINTS AS TENSION BARS DO.
 - STEEL SHALL BE PER CSA G40.12 300W
 - TENSION RODS / BARS, NUTS AND WASHERS SHALL BE GALVANIZED PER CSA G164-M92 TO A MINIMUM MASS OF 610g/m²
 - EYE-BOLTS FOR TENSION RODS SHALL BE GALVANIZED 12.7 mm SAE GRADE 5.
 - BOLTS FOR TENSION RODS SHALL BE GALVANIZED M24x260 (SAE GRADE 5)
 - TENSION BAR SHALL BE USED AS TEMPLATE FOR CONTRACTOR TO FIELD DRILL HOLES IN INSTALLED PIPE.
 - NUTS SHALL NOT BE OVER TIGHTENED.
 - BOLT LENGTH PROTRUDING MORE THAN 25 mm BEYOND TIGHTENED BUT SHALL BE CUT OFF FLUSH WITH NUT.



REDUCED PLANS
Use scale half size of those shown when printed on 11" x 17" paper.

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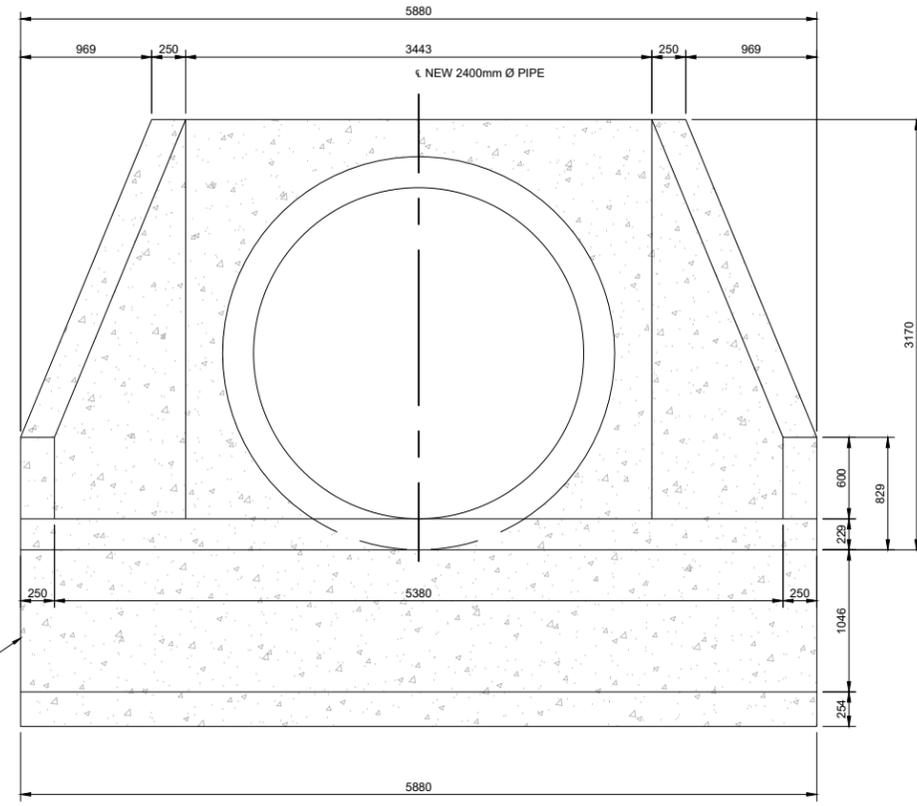


4	ISSUED FOR TENDER	MAY 9 2022
3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 1 2022
revisions		date

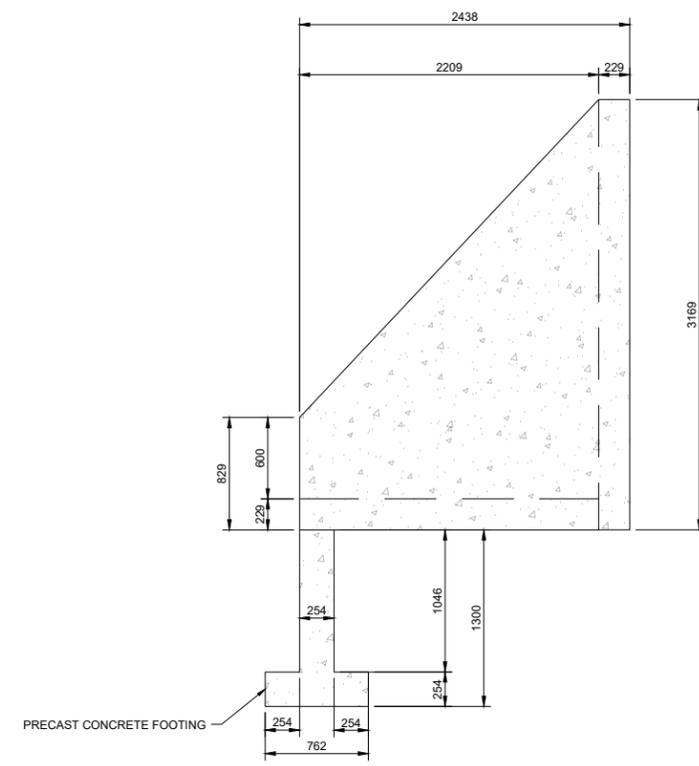
project CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing KM74.8
PRECAST CONCRETE
FLARED HEADWALL
DETAILS

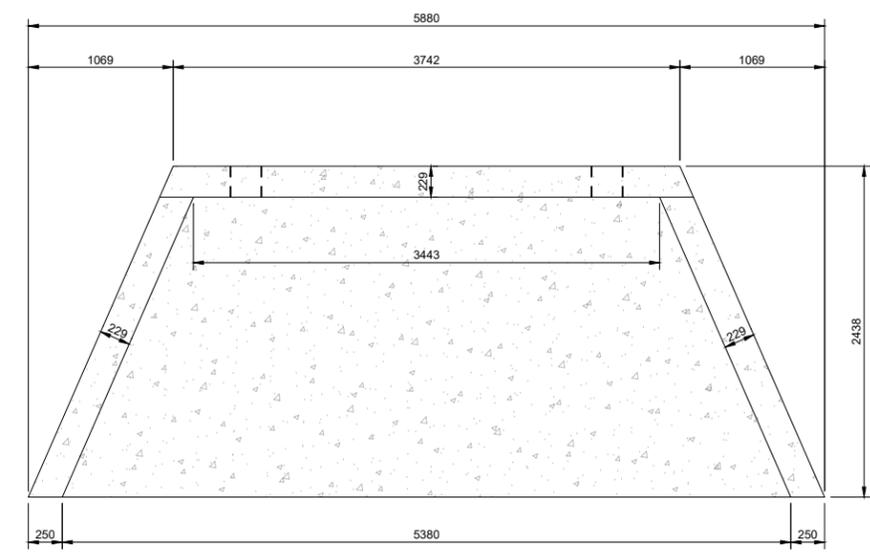
designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender	Submission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
	221-01526-00	
drawing no.	no. du dessin	
	S14	



CONCRETE HEADWALL FRONT VIEW
SCALE: 1:25



CONCRETE HEADWALL SIDE VIEW
SCALE: 1:25



CONCRETE HEADWALL TOP VIEW
SCALE: 1:25

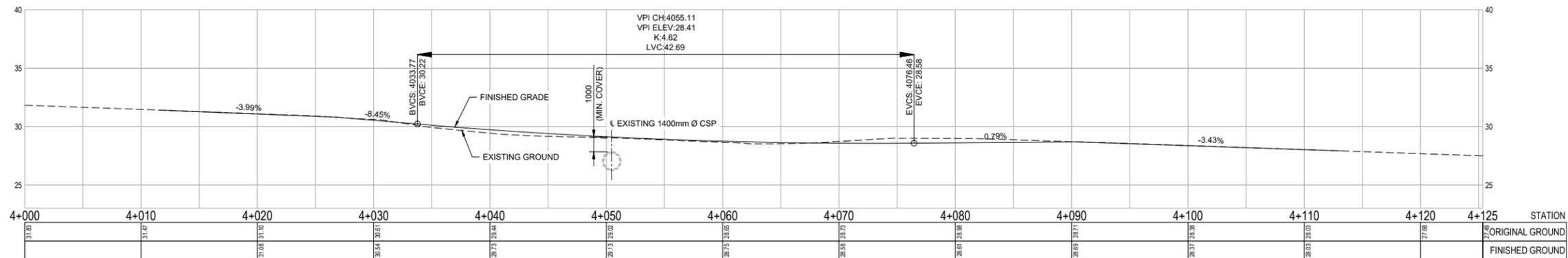
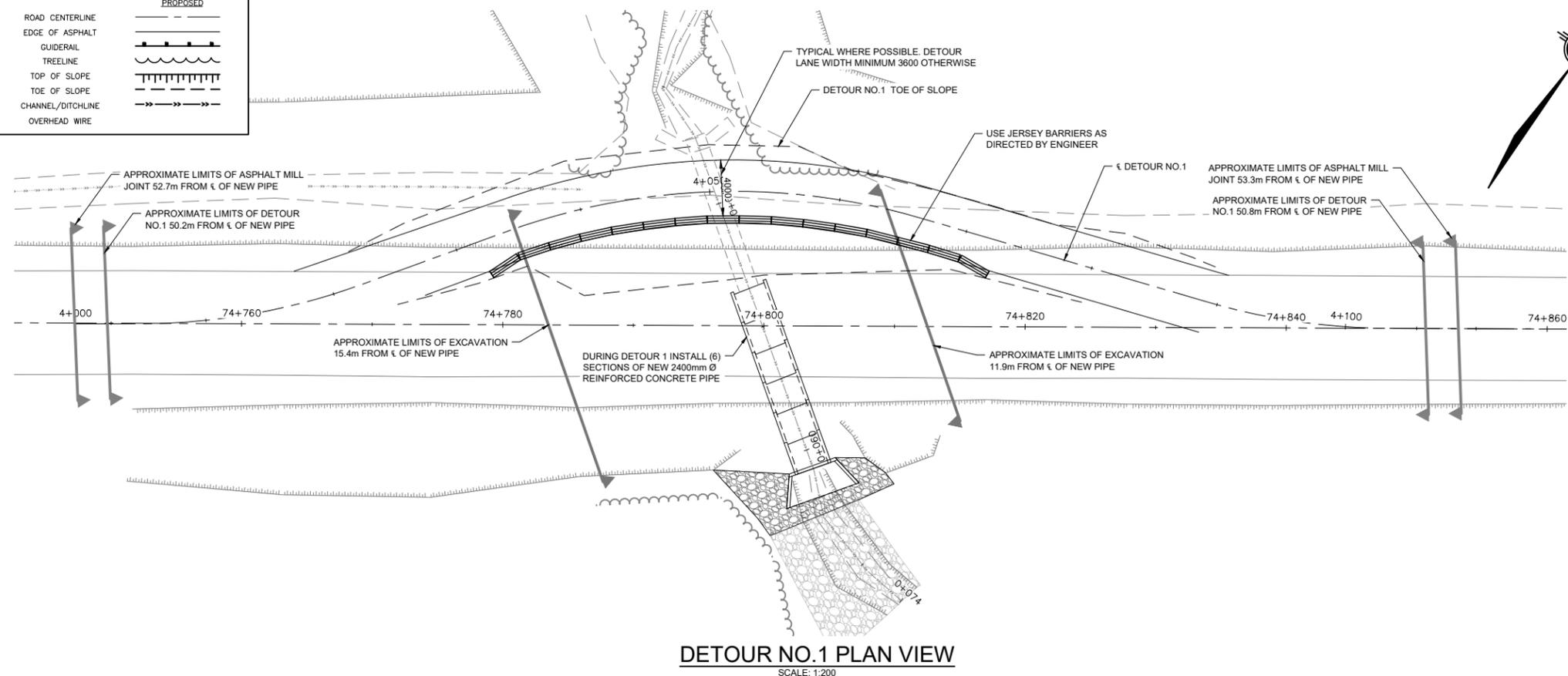
NOTE:
1. CONTRACTOR RESPONSIBLE FOR THE WELDING OF CONNECTIONS AND GROUTING OF JOINTS ON SITE.

REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.

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EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



REDUCED PLANS
Use scale half size of those shown when printed on 11" x 17" paper.



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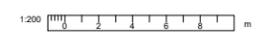


revisions	date	
4	ISSUED FOR TENDER	MAY 9 2022
3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 14 2022

project: CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing: KM74.8
DETOUR NO.1
LAYOUT PLAN AND PROFILE

designed	IGW	conçu
date	MAY 9, 2022	
drawn	CJM	dessiné
date	MAY 9, 2022	
approved	RBS	approuvé
date	MAY 9, 2022	
Tender	Submission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
	221-01526-00	
drawing no.	no. du dessin	
	S15	





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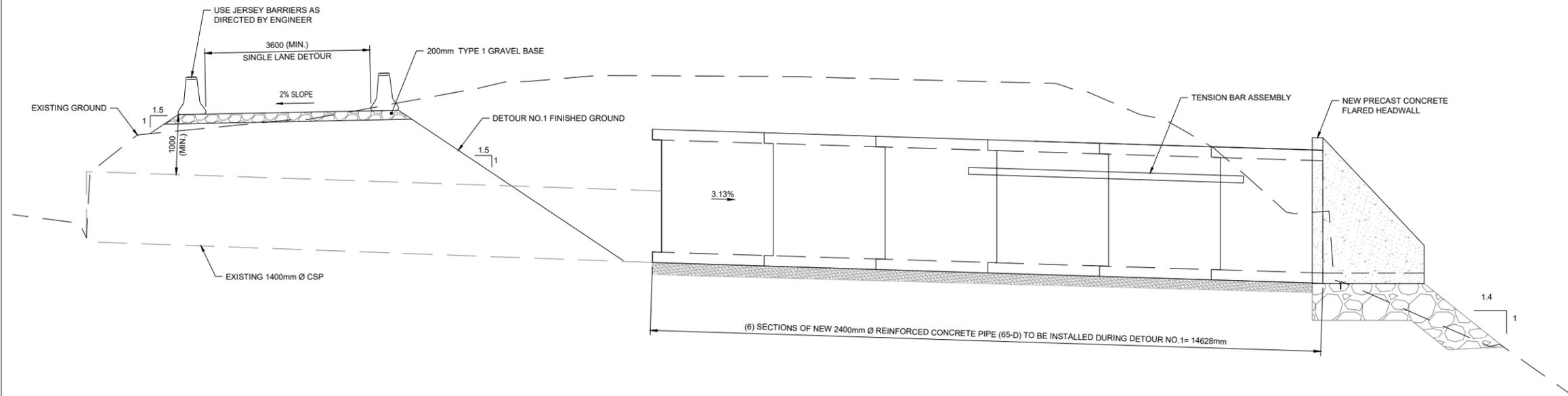
4	ISSUED FOR TENDER	MAY 9 2022
3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 14 2022
revisions		date
project		projct

CABOT TRAIL
STRUCTURE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

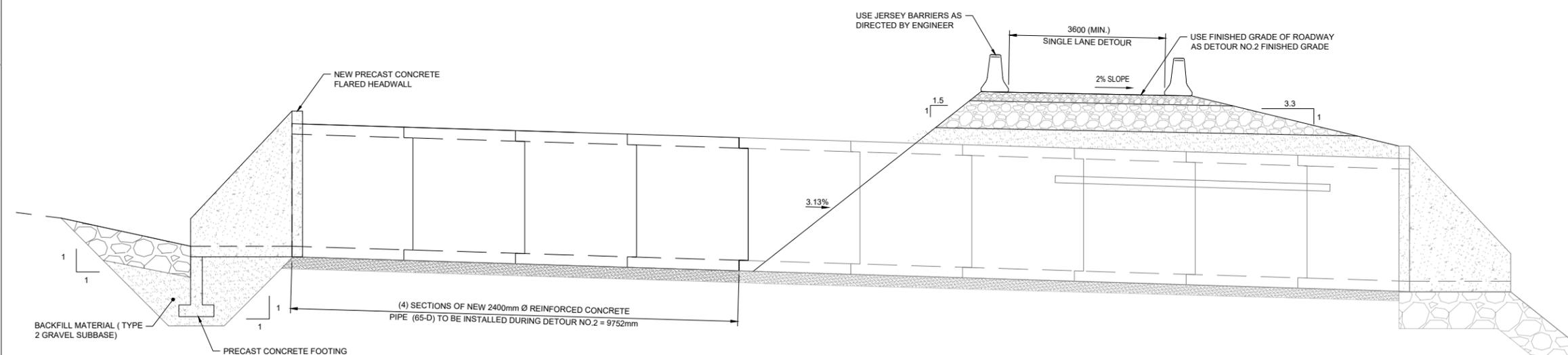
KM74.8
SECTIONS THRU DETOURS

designed IGW	conçu
date MAY 9, 2022	
drawn CJM	dessiné
date MAY 9, 2022	
approved RBS	approuvé
date MAY 9, 2022	
Tender	Submission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
221-01526-00	
drawing no.	no. du dessin
S16	



SECTION THRU CULVERT CENTERLINE DURING DETOUR NO. 1

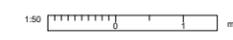
SCALE 1:50



SECTION THRU CULVERT CENTERLINE DURING DETOUR NO. 2

SCALE 1:50

NOTE:
DETOUR NO.2 ALIGNMENT SHALL BE WITHIN LIMITS
OF NEW AND EXISTING ROADWAY FOOTPRINT.



REDUCED PLANS
Use scale half size of those shown
when printed on 11" x 17" paper.

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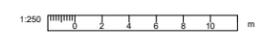
4	ISSUED FOR TENDER	MAY 9 2022
3	ISSUED FOR 90% REVIEW	APR 22 2022
2	ISSUED FOR 50% REVIEW	APR 8 2022
1	ISSUED FOR REVIEW	APR 14 2022
revisions		date

project project
**CABOT TRAIL
 STRUCTURE REPLACEMENT
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

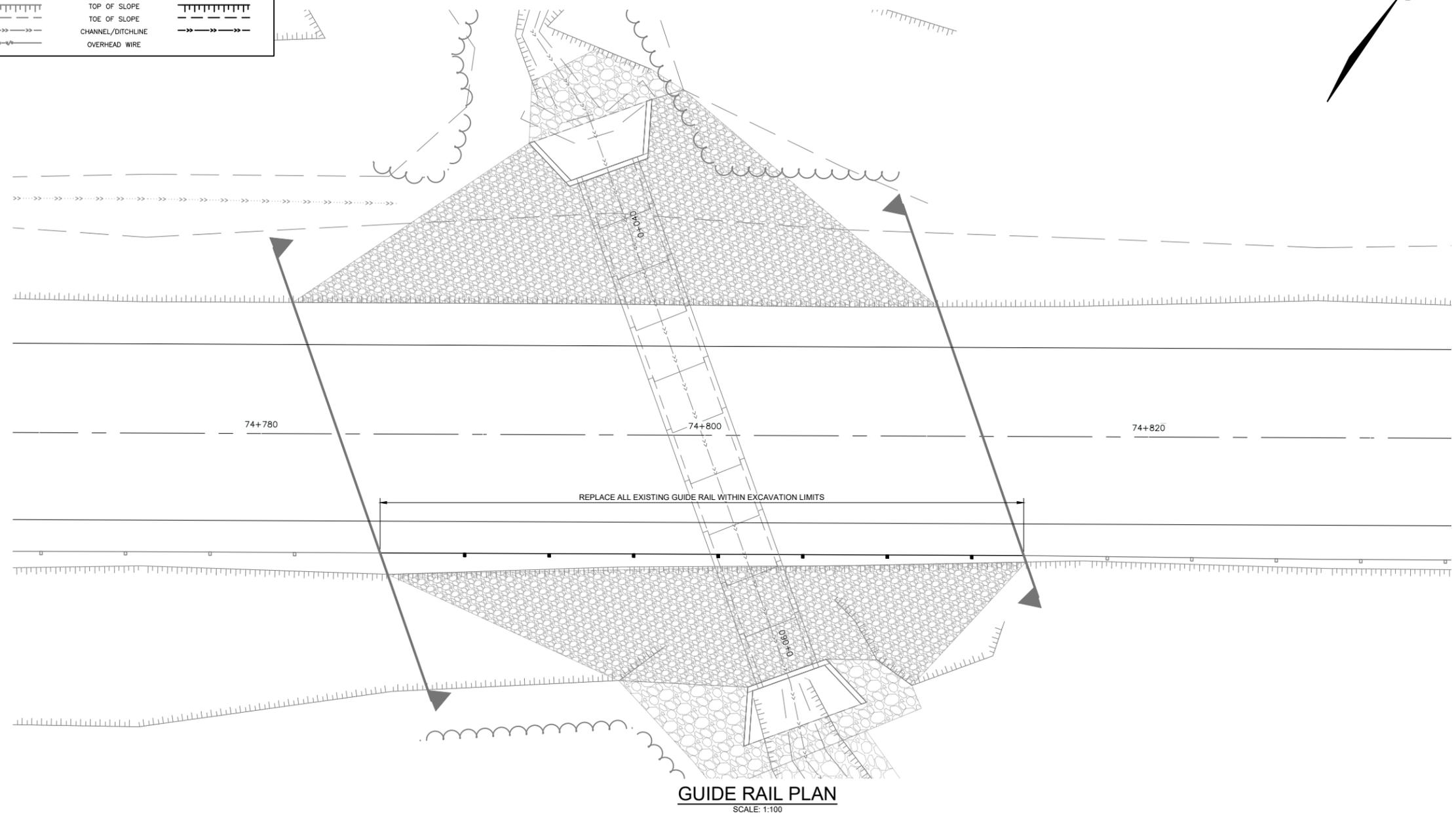
drawing dessin

**KM74.8
 GUIDE RAIL PLAN**

designed IGW	conçu
date MAY 9, 2022	
drawn CJM	dessiné
date MAY 9, 2022	
approved RBS	approuvé
date MAY 9, 2022	
Tender	Submission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
221-01526-00	
drawing no.	no. du dessin
S17	



EXISTING	LEGEND	PROPOSED
	ROAD CENTERLINE	
	EDGE OF ASPHALT	
	GUIDERAIL	
	TREELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	CHANNEL/DITCHLINE	
	OVERHEAD WIRE	



GUIDE RAIL PLAN
 SCALE: 1:100

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REDUCED PLANS
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